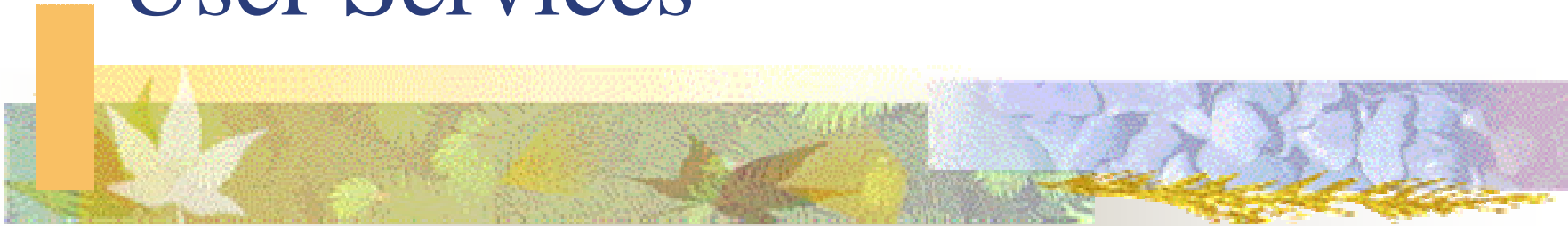


NDLTD Union Collection User Services



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March 2001



Aim of Project

- Combine ETD metadata from multiple sources
- Provide high-level centralized user services, eg., searching



Current State of NDLTD

- Documents: PDF
- Metadata: *MARC*, SOIF, etc.
- Local Search: Local package or Greenstone, ...
- Workflow: Tony Atkins' software, ...
- Federated Search: James Powell's software

Project Goals

- Documents: PDF + XML
- Metadata: MARC21 + ETDMS
Encoded in XML, XML+RDF, using OCLC's name authority system
- Federated Search:





Key Elements in Implementation

- Harvesting
- Metadata Definition
- Name Authority Control
- NDLTD Union Collection
- NDLTD Services



Harvesting

- Transform standalone archives into OAI data providers
 - Archives using Tony's software (drop-in code available)
 - Archives using other software (generic OAI templates available)



Metadata Definition

- Prepare ETDMS formal specifications and documentation
 - Abstract specification of semantics (done)
 - Plain “vanilla” XML version (done, and built into OAI template code)
 - Richer RDF XML version (in progress)

MARC Example

```
<oai_marc status="n" type="t" level="m" encLvl="u" catForm="u">
<fixfield id="008" >" s1996  vau| sm 00| 0|eng d"</fixfield>
<varfield i1="1" i2=" " id="100" >
  <subfield label="a" >Broderick, Kevin Dee</subfield>
</varfield>
<varfield i1="0" i2="0" id="245" >
  <subfield label="a" >Constructing A Successful Therapeutic Experience With
    Adolescent Clients: A Qualitative Study Of Adolescent Experiences In Family
    Therapy</subfield>
</varfield>
<varfield i1=" " i2=" " id="260" >
  <subfield label="b" >University Libraries, Virginia Polytechnic Institute and State
    University</subfield>
</varfield>
...
</oai_marc>
```




ETDMS XML Example

<thesis>

<title>Constructing A Successful Therapeutic Experience With Adolescent Clients:
A Qualitative Study Of Adolescent Experiences In Family Therapy</title>

<creator>Broderick, Kevin Dee</creator>

<publisher>Virginia Polytechnic Institute and State University</publisher>

<contributor role="committee_member" >K. H. Rosen</contributor>

<degree >

<name>MS</name>

<level>masters</level>

<discipline>Family and Child Development</discipline>

<grantor>Virginia Polytechnic Institute and State University</grantor>

</degree>

...

</thesis>

ETDMS XML+RDF Example

```
<rdf:RDF>
```

```
<thesis:EDT rdf:about="http://scholar.lib.vt.edu/theses/available/etd-492119119643530/">
```

```
<dc:creator rdf:resource="mailto:kevin@abc.xyz"/>
```

```
<dc:title xml:lang="en">Constructing A Successful Therapeutic Experience With Adolescent Clients: A Qualitative Study Of Adolescent Experiences In Family Therapy</dc:title>
```

```
<dc:publisher>Virginia Polytechnic Institute and State University</dc:publisher>
```

```
<dc:language><dct:RFC1766 rdf:value="de"/></dc:language>
```

```
<thesis:level>masters</thesis:level>
```

```
</thesis:EDT>
```

```
<dca:Person rdf:about="mailto:kevin@abc.xyz">
```

```
<rdf:value>Broderick, Kevin Dee</rdf:value>
```

```
</dca:Person>
```

```
...
```

```
</rdf:RDF>
```

Korean MARC Example

```
Rec. 0: Leader: 00349nas 22001331k 4500
TAG IND Contents
001      **211004
008      000414s1999      ko      00      kor
041      $a kor
100      $a 남칠우
245      $a 毛澤東의 外交路線 研究
          $x A Study of Mao's Foreign Policy Line
260      $b 건국대학교
300      $a 208p
502  1   $a 학위논문(박사)
          $c 정치학과
          $d 1999
700      $a Nam Chil-woo
```

Korean ETDMS Example

```
<?xml version="1.0" encoding="EUC_KR"?>

<thesis xmlns="http://nd1td.org/metadata/etdms"
        xmlns:xsi="http://www.w3.org/2000/10/XMLSchema-instance"
        xsi:schemaLocation="http://nd1td.org/metadata/etdms
                            http://oai.dlib.vt.edu/OAI/etdms.xsd"
        xml:lang="kor">

  <title>毛澤東의 外交路線 研究 </title>
  <title xml:lang="en">A Study of Mao's Foreign Policy Line</title>
  <creator>남칠우</creator>
  <publisher>건국대학교</publisher>
  <subject>unprovided</subject>
  <date>1999 </date>
  <type>Thesis</type>
  <format>unknown</format>
  <language>kor</language>
  <degree>
    <name>unspecified</name>
    <level>doctoral</level>
    <discipline>정치학과</discipline>
    <grantor>정치학과</grantor>
  </degree>

</thesis>
```



Name Authority Control

- Build and run authority server
- Use authority service for coding metadata
- Use authority data in access services
 - MARIAN
 - VTLS



NDLTD Union Collection

- Create merged collection of metadata
 - Harvest and store metadata
 - De-dupe, perform QC, add value
 - Provide data to service providers using OAI protocol



NDLTD Services

- VTLS
- MARIAN
- Annotation Services
- Citation Database
- Recommendation Services
- ...



Centralized Databases

- German database effort – Peter Diepold
- UNESCO site
- NDLTD Central DB
 - Local sites keep information up-to-date
 - Serves as registry
 - Machine readable, usable by software
 - Standard representations

NDLTD Central Database

Contact people, trainers	NDLTD comm. members	Collection loc. (OAI ID)
Requirement status and date	Submission instructions	Aids: thesauri, ...
Statistics and logs	Open source resources	Training resources
Preservation policies	Standards and policies	IP policies